

REPORT OF CHANNEL CONDITIONS 400 FEET WIDE OR GREATER (ER 1130-2-306)							PAGE 1 OF 4	
							DATE: February 28, 2007	
TO: The Record				FROM: U.S. Army Corps of Engineers 26 Federal Plaza, ATTN: CENAN-OP-ST New York, NY 10278-0090				
RIVER/HARBOR NAME AND STATE: Newark Bay, Hackensack and Passaic Rivers – Main Channel, Port Newark, Port Elizabeth, and South Elizabeth Channels, New Jersey					MINIMUM DEPTHS IN CHANNEL ENTERING FROM SEAWARD			
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)				
Reach A: Main Channel South Reach (0.0 – 1.5 mil) From the junction between Kill Van Kull and Newark Bay Main Channel approximately 1,200 feet seaward of RED GAS #4 to RED GAS #10.	Map 883 Pg 2, 3, & 5 of 16; 27 & 31 Oct; 1, 2, 7 thru 9, 14, 16, 20 thru 22, 29 & 30 Nov; 6 Dec 2006	1,000-1,775	1.32	45	42.4	46.2	46.6	44.9
Reach B: Main Channel Middle Reach (1.5 – 2.5 mil) From RED GAS #10 to a point approximately 230 feet seaward of RED NUN #16.	Map 883 Pg 5 & 6 of 16; 27 & 31 Oct; 1, 2, 7 thru 9, 14, 16, 20 thru 22, 29 & 30 Nov; 6 Dec 2006	800-1,700	0.88	45	41.5	43.8	43.1	40.1
Reach B1: Main Channel Middle Reach (2.5 – 3.1 mil) From a point approximately 230 feet seaward of RED NUN #16 to GREEN CAN #19A.	Map 883 Pg 6 & 7 of 16; 27 & 31 Oct; 1, 2, 7 thru 9, 14, 16, 20 thru 22, 29 & 30 Nov; 6 Dec 2006	560-800	0.53	40	34.2	39.0	34.7	29.7
Reach C: Main Channel North Reach (3.1 – 4.7 mil) From GREEN CAN #19A to a point approximately 1,675 feet landward of RED NUN #24.	Map 883 Pg 7 thru 10 of 16; 27 & 31 Oct; 1, 2, 7 thru 9, 14, 16, 20 thru 22, 29 & 30 Nov; 6 Dec 2006	500-1,030	1.36	35	18.2	23.5	20.2	15.0
Reach D: Port Newark Branch Reach (0.0 – 0.4 mil) From GREEN CAN #19A to a point approximately 700 feet landward of GREEN CAN #3.	Map 883 & 886 Pg 7 & 14 of 16; 27 & 31 Oct; 1, 2, 7 thru 9, 14, 16, 20 thru 22, 29 & 30 Nov; 6, 11, 18 & 20 Dec 2006	400-1,775	0.37	40	27.9	32.7	35.8	34.6
Reach E: Port Newark Inshore Reach (0.4 – 1.6 mil) From a point approximately 700 feet landward of GREEN CAN #3 to END of Port at a point approximately 1.6 miles westward of Main Channel.	Map 886 Pg 14 thru 16 of 16; 11, 18 & 20 Dec 2006	400	1.06	40	34.4	33.1	31.2	31.5
Reach G: Port Elizabeth Branch Reach (0.0 – 1.4 mil) From RED NUN #2 to END of Port at a point approximately 1.4 miles westward.	Map 884 Pg 11 thru 13 of 16; 27 & 31 Oct; 1, 2, 7 thru 9, 14, 16, 20 thru 22, 29 & 30 Nov; 6 Dec 2006	500-800	1.26	45	44.2	43.6	43.3	39.2

REMARKS:

- All depths are in reference to Mean Low Water (MLW).
- Channel Length is in nautical miles.

REMARKS (continued):**NEWARK BAY**

- **Reach A:** Very minor shoaling exists along the edge of the Right Outside Quarter of the channel beginning approximately 660 feet landward of RED GAS #4 and extends approximately 300 feet landward.

Shoaling also exists in the Left Outside Quarter of the channel beginning approximately 1,625 feet landward of GREEN CAN #1 and extends approximately 725 feet landward. The width of the shoal is approximately half the width of the Left Outside Quarter.

Shoaling also exists in the Left Outside Quarter of the channel having an approximate length of 385 feet, and is approximately centered about the limit of where Reach A ends and Reach B begins. The width of the shoal is approximately 115 feet into the Left Outside Quarter of the channel.

- **Reach B:** Shoaling exists in the Left Outside Quarter of the channel beginning approximately 3,050 feet seaward of RED NUN #2 and extends landward for approximately 850 feet. The shoal's maximum width is approximately 145 feet into the Left Outside Quarter.

Shoaling also exists in the Left Outside Quarter of the channel beginning approximately 230 feet seaward of RED NUN #2 and extends landward to GREEN CAN #15A. The shoal extends the entire width of the Left Outside Quarter of the channel.

Shoaling also exists throughout much of the Right Outside Quarter of this reach. It begins approximately 830 feet seaward of RED NUN #12 and extends landward throughout the remainder of the reach. The width of the shoal takes up the majority of the Right Outside Quarter of the channel, until approximately 1,000 feet landward of RED GAS #14 where the shoal widens out into the majority of the Right Inside Quarter of the channel.

- **Reach B1:** Shoaling exists along the Right Outside Quarter of the channel for this entire reach. There is also shoaling in the Right Inside Quarter of the channel for the majority of this reach.

Shoaling exists for approximately the first 600 feet of this reach across the entire Left Outside Quarter of the channel, and into half of the Left Inside Quarter of the channel for approximately the first 600 feet of this reach.

There is also shoaling in the Left Outside Quarter of the channel for approximately the last 165 feet of this reach.

- **Reach C:** Shoaling exists along the Right Outside Quarter of the channel for this entire reach.

Shoaling exists sporadically along the edge, and in some areas as wide as the entire width, of the Left Outside Quarter of the channel throughout this reach.

Also, extensive shoaling exists throughout all quarters of the channel in various areas beginning approximately 1,100 feet seaward of RED NUN #24.

- **Reach D:** Shoaling exists in the Left Outside Quarter of the channel for the majority of this reach.

Shoaling exists in the Left Inside Quarter of the channel starting from the beginning of this reach and extending approximately 1,900 feet landward.

Shoaling exists in the Right Inside Quarter of the channel starting approximately from the beginning of the reach and extending approximately 1,325 feet landward.

Shoaling exists in the Right Outside Quarter of the channel starting approximately from the beginning of the reach and extending approximately 1,700 feet landward into the reach.

- **Reach E:** Shoaling exists in the Right Outside Quarter of the channel from the beginning of the reach and extends landward until the channel's bend.

There is more shoaling in the Right Outside Quarter of the channel starting approximately 820 feet landward from the channel's bend and it extends approximately 1,275 feet landward into the reach.

REMARKS (continued):**NEWARK BAY**

Shoaling also exists starting approximately 2,900 feet landward of the channel's bend and it extends to the end of the port (the last 1,275 feet of the port) generally covering the entire width of the channel.

Shoaling also exists in the Right Inside Quarter of the channel starting approximately 350 feet landward from the beginning of the reach and it extends approximately 700 feet landward into the reach. The width of the shoal covers approximately half the width of the Right Inside Quarter.

Shoaling exists in the Left Outside Quarter of the channel from the beginning of the reach and it extends landward until just before the channel's bend.

Shoaling also exists in the Left Inside Quarter of the channel starting approximately at the beginning of the reach and extending approximately 1,250 feet landward into the reach. The width of the shoal covers approximately half the width of the Left Inside Quarter.

Shoaling also exists in the Left Outside and Inside Quarters of the channel starting approximately 800 feet landward of the channel's bend and extending approximately 1,600 feet landward into the reach.

- o **Reach G:** Shoaling exists in approximately the first 335 feet of the Right Outside Quarter of this reach.

Shoaling also exists in the Right Outside and Inside Quarters of the channel starting approximately 535 feet seaward of RED NUN #4 and extending to approximately 800 feet landward of RED NUN #4.

Shoaling also exists in the Right Outside Quarter of the channel starting approximately 180 feet landward of the corner of the bulkhead and extending to approximately 720 feet landward of the corner of the bulkhead.

Shoaling also extends across the channel's entire width for approximately the last 400 feet of the port.

REPORT OF CHANNEL CONDITIONS 100 TO 400 FEET WIDE <i>(ER 1130-2-306)</i>						PAGE 4 OF 4	
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RIVER/HARBOR NAME AND STATE: Newark Bay, Hackensack and Passaic Rivers – Main Channel, Port Newark, Port Elizabeth, and South Elizabeth Channels, New Jersey						MINIMUM DEPTHS IN CHANNEL ENTERING FROM SEAWARD	
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)			
Reach F: Pt. Newark Pierhead Reach (0.0 – 0.7 mil) From RED NUN #4 to GREEN CAN #3.	Map 884 & 886 Pg 11 & 14 of 16; 6, 7, 11, 18, 12 & 20 Dec 2006	300-750	0.65	40	31.2	33.1	28.2
Reach I: Port Elizabeth South Reach (0.0 – 0.5 mil) From GREEN CAN #1 to END of Port at a point approximately 0.5 miles westward.	Map 895 Pg 4 of 16; 4 & 5 Dec 2006	140-290	0.43	45	45.4	46.1	46.8

REMARKS:

- All depths in MLW.
- Channel length is in nautical miles.

NEWARK BAY

- **Reach F:** With the exception of a few areas, shoaling exists throughout this entire reach.
- **Reach I:** No shoaling exists in this reach.